

Supplemental material

Subject	Pulses/hr		Basal secretion IU/l/6hr		Mass per pulse IU/l		Pulsatile secretion IU/l/6hr		ApEn	
	Control	NK3Ra	Control	NK3Ra	Control	NK3Ra	Control	NK3Ra	Control	NK3Ra
1	0.5	0.6	45.7	50.8	2.3	9.1	9.1	45.3	1.1	0.7
2	0.5	0.8	90.1	30.1	14.4	6.1	57.5	36.5	0.9	0.9
3	0.3	0.4	31.5	22.0	4.6	26.3	9.1	78.8	0.7	0.5
4	0.6	0.5	44.4	12.1	5.6	7.5	28.1	29.9	0.7	0.7
5	1.0	1.0	92.4	40.9	2.7	7.5	21.8	59.8	1.2	1.1
6	0.8	1.0	38.3	4.0	3.3	1.1	19.5	8.8	1.0	1.1
7	0.9	0.6	54.5	117.4	10.0	12.4	70.2	62.2	1.1	0.7
8	1.0	0.4	57.1	11.5	1.9	7.9	14.9	23.7	1.0	0.4

Supplemental table 1. Pulsatile LH secretion parameters for each women in the follicular phase of the menstrual cycle with and without NK3R antagonist.

Subject	Liver function parameter	Pre-treatment	End of treatment	2-3 weeks later
1	Bilirubin	6	11	8
	ALT	11	11	6
	Alkaline phosphatase	62	62	62
	AST	21	18	16
2	Bilirubin	8	6	8
	ALT	10	14	14
	Alkaline phosphatase	92	89	82
	AST	19	18	19
3	Bilirubin	8	10	5
	ALT	13	11	13
	Alkaline phosphatase	59	54	58
	AST	23	22	33
4	Bilirubin	9	9	8
	ALT	17	23	26
	Alkaline phosphatase	64	72	69
	AST	17	25	23

5	Bilirubin	9	10	14
	ALT	13	12	15
	Alkaline phosphatase	46	44	40
	AST	14	14	16
6	Bilirubin	10	8	10
	ALT	17	14	17
	Alkaline phosphatase	41	40	40
	AST	18	14	18
7	Bilirubin	5	7	5
	ALT	19	21	26
	Alkaline phosphatase	55	52	52
	AST	21	22	20
8	Bilirubin	30	25	27
	ALT	7	11	9
	Alkaline phosphatase	48	60	53
	AST	16	20	18
9	Bilirubin	7	4	3
	ALT	12	18	35
	Alkaline phosphatase	80	88	112
	AST	12	22	24

10	Bilirubin	12	No result, lab error	9
	ALT	16	No result, lab error	14
	Alkaline phosphatase	38	No result, lab error	47
	AST	20	16	24
11	Bilirubin	6	6	10
	ALT	9	10	10
	Alkaline phosphatase	92	79	70
	AST	19	18	19
12	Bilirubin	6	12	4
	ALT	23	23	20
	Alkaline phosphatase	59	55	52
	AST	18	20	16
13	Bilirubin	8	9	5
	ALT	18	20	17
	Alkaline phosphatase	61	63	75
	AST	19	22	23

Supplemental table 2. Liver function monitoring for each subject during NK3R antagonist administration taken pre-treatment, at the end of drug administration and 2-3 weeks later. Biochemistry reference values: bilirubin 3-21 µmol/l; alanine aminotransferase (ALT) 10-50

IU/l; alkaline phosphatase 40-125 IU/l; aspartate aminotransferase 10-45 IU/l. Shaded cells indicate liver function parameters above the upper range of laboratory values.